

**What is claimed is:**

1. A capsule for use as a filter for a smoking article comprising:  
an outer shell that defines a cavity;  
a plurality of perforations through at least a portion of the outer shell; and  
5 a filter media substantially filling the cavity;

wherein the outer shell is configured to be received within the smoking article.

2. The capsule of claim 1 wherein the outer shell is comprised of gelatin, polysaccharide,  
hydroxypropyl methylcellulose, a cellulosic material, or a combination thereof.

3. The capsule of claim 1 wherein the perforations are individually of such a diameter that a  
substantial portion of the filter media cannot readily pass therethrough.

4. The capsule of claim 1 wherein the media is carbon.

5. The capsule of claim 1 wherein the media is a flavor-modifier or aroma-modifier.

6. The capsule of claim 1 wherein the outer shell is oblong.

7. The capsule of claim 6 wherein the oblong outer shell has a diameter of approximately 8  
mm and a length between about 3 mm and about 12 mm.

8. The capsule of claim 7 wherein the oblong outer shell is substantially filled with about 200 mg to about 300 mg of carbon.

9. The capsule of claim 1 wherein the outer shell is circular.

5

10. The capsule of claim 9 having a diameter of approximately 8 mm.

11. The capsule of claim 1 wherein the perforations are about 0.05 mm to about 1.0 mm in diameter.

10

12. The capsule of claim 1 wherein the capsule includes ends having end surface areas, and the perforations comprise approximately 45 percent of the end surface areas of the capsule.

13. An insert for a smoking article, the smoking article having tobacco and a first end, the insert comprising:

15

- (a) an outer shell that defines a cavity;
- (b) a plurality of perforations through the outer shell; and
- (c) a media substantially filling the cavity,

wherein the insert is placed within the smoking article at a point between the tobacco and

20 the first end.

14. The insert of claim 13 wherein the media is tobacco smoke-filtering media.

15. The insert of claim 14 wherein the media is activated carbon.
16. The insert of claim 13 wherein the media is flavor-modifying media.
- 5 17. The insert of claim 16 wherein the flavor-modifying media is menthol.
18. The insert of claim 13 wherein the media is aromatic-modifying media.
19. The insert of claim 13 wherein the media is a combination of tobacco smoke-filtering and  
10 flavor-modifying media.
20. The insert of claim 13 wherein the capsule shell is comprised of gelatin, polysaccharide, hydroxypropyl methylcellulose, a cellulosic material, or a combination thereof.
- 15 21. The insert of claim 13 wherein the perforations are individually of such a diameter that the media cannot readily pass therethrough.
22. The insert of claim 13 wherein the smoking article is a cigarette.
- 20 23. The insert of claim 22 wherein the cigarette further comprises a mouthpiece having a filter and a tobacco charge, whereby the insert is placed between the tobacco charge and the mouthpiece filter.

24. A cigarette comprising:

- (a) a tobacco charge; and
- (b) a filter, the filter further comprising:
  - (i) an outer shell that defines a cavity;
  - (ii) a plurality of perforations through the outer shell; and
  - (iii) a tobacco-smoke filtering media substantially filling the cavity,

wherein the filter is placed at an effective location to the tobacco charge for the filtration of tobacco smoke through the media.

25. The filter of claim 24 wherein the media is capable of filtering undesired components selected from the group consisting of tars, nicotine, volatiles, mutagens, carcinogens, saturated and unsaturated aliphatic aldehydes, polycyclic aromatic hydrocarbons, and nitrosamines.

26. A method for manufacturing a filter comprising:

- (a) feeding and aligning empty capsule shells;
- (b) perforating the shells to form a gas flow path through each shell;
- (c) separating the empty capsule shells into shell halves ;
- (d) dosing the shell halves with a filtering media; and
- (e) reassembling the shell halves to form a perforated, media-filled capsule filter.

27. The method of claim 26 wherein perforating the shells comprises forming openings in the shells with a laser.

28. The method of claim 26 wherein the capsule shells include opposed ends having end surface areas, and perforating the shells is completed over approximately 45% of the end surface areas of the shells.

5

29. The method of claim 26 further comprising dosing the shell halves with an aromatic media or flavor-modifying media.

30. A method for manufacturing a filter comprising:

- 10                   (a) forming capsule shell halves from a shell material comprising a foaming agent, the formed capsule shell halves having pluralities of open-cell perforations therethrough;
- (b) feeding and aligning empty capsule shell halves;
- (c) dosing the shell halves with a filtering media; and
- 15                   (d) assembling the shell halves to form a perforated, media-filled capsule filter.

31. The method of claim 30 further comprising dosing the shell halves with an aromatic media or flavor-modifying media.

20